

**DALY, CROWLEY, MOFFORD & DURKEE, LLP**

Telephone: 781-401-9988

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Including this transmittal sheet, document consists of Nine (9) pages.

Date: July 8, 2005

**Deliver To: Commissioner for Patents****From: Donald F. Mofford, Esq.****Company: U.S. PTO****Facsimile Number: 703-872-9306****Telephone Number:****MESSAGE****RE: U.S. Patent Application of Uldis Duselis, et al.****Entitled: DYNAMIC POINTING ACCURACY EVALUATION SYSTEM AND METHOD  
USED WITH A GUN THAT FIRES A PROJECTILE UNDER CONTROL OF  
AN AUTOMATED FIRE CONTROL SYSTEM****Filed on: December 12, 2003****U.S. Appl. No.: 10/734,446****Our Ref. No.: RTN-268PUS****PLEASE CONFIRM RECEIPT OF THIS FACSIMILE TRANSMISSION.****THANK YOU.****STATEMENT OF CONFIDENTIALITY**

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PTO/SB/21 (09-04)

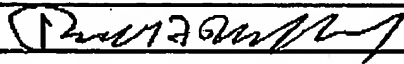
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|   |                      |                        |            |
|---|----------------------|------------------------|------------|
| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number   | 10/734,446             |            |
|   | Filing Date          | December 12, 2003      |            |
|   | First Named Inventor | Uldis Duselis          |            |
|   | Art Unit             | 3641                   |            |
|   | Examiner Name        | Stephen Johnson        |            |
| Total Number of Pages In This Submission  | 8                    | Attorney Docket Number | RTN-268PUS |

| ENCLOSURES (Check all that apply)   |  |  |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input checked="" type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC Appeal Notice, Brief, Reply Brief<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>PTO/SB/96 Form<br>Copy of Assignment as filed |
| Remarks<br>In the event a petition for extension of time is required by this paper and not otherwise provided, such petition is hereby made and authorization is provided herewith to charge deposit account No. 50-0845 for the cost of such extension.  |  |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |   |          |        |
|--|---|----------|--------|
| Firm Name                                  | Daly, Crowley, Mofford & Durkee, LLP  |          |        |
| Signature                                  |  |          |        |
| Printed name                               | Donald F. Mofford   |          |        |
| Date                                       | 7/8/05  | Reg. No. | 33,740 |

| CERTIFICATE OF TRANSMISSION/MAILING   |   |        |
|---|---|--------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. |   |        |
| Signature   |  |        |
| Typed or printed name   | Donald F. Mofford   | Date   |
|   |   | 7/8/05 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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JUL 08 2005

PTO/SB/02 (09-04)

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**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/734,446        |
| Filing Date            | December 12, 2003 |
| First Named Inventor   | Uldis Duselis     |
| Art Unit               | 3641              |
| Examiner Name          | Stephen Johnson   |
| Attorney Docket Number | RTN-268PUS        |

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number:

33164

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with  
Customer Number:

33164

OR

|  |  |       |     |              |            |
|--|--|-------|-----|--------------|------------|
| <input type="checkbox"/> Firm or Individual Name | Donald F. Mofford, Esq.  |       |     |              |            |
| Address  | Daly, Crowley, Mofford & Durkes, LLP<br>354A Turnpike Street, Suite 301A |       |     |              |            |
| City   | Canton   | State | MA  | Zip          | 02021-2714 |
| Country  | United States  |       |     |              |            |
| Telephone  | 781-401-9988 X13   |       | Fax | 781-401-9986 |            |

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

|           |                        |  |           |              |  |
|-----------|------------------------|--|-----------|--------------|--|
| Signature | <i>Peter Dulchinos</i> |  |           |              |  |
| Name      | Peter Dulchinos        |  |           |              |  |
| Date      | 7/7/05                 |  | Telephone | 781-522-3041 |  |

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.11. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Atty. Dckt. No. 02W139

PTO/SB/88 (08-03)

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Uldis Duselis

Application No./Patent No.: 10/734,446 Filed/Issue Date: December 12, 2003

Entitled: DYNAMIC POINTING ACCURACY EVALUATION SYSTEM AND METHOD USED WITH A GUN THAT FIRES A PROJECTILE UNDER CONTROL OF AN AUTOMATED FIRE CONTROL SYSTEM

Raytheon Company, a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

7/7/05  
Date  
781-522-3041  
Telephone number

Peter Dulchinos  
Typed or printed name  
Peter Dulchinos  
Signature  
Patent Engineer/Attorney  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a (an)

**Dynamic Pointing Accuracy Evaluation System and Method Used with a  
Gun that Fires a Projectile Under Control of an Automated  
Fire Control System**

for which application for Letters Patent of the United States has been executed by me, or (if the following is completed) was filed as Application No. \_\_\_\_ on \_\_\_\_ and

WHEREAS, RAYTHEON COMPANY (hereinafter referred to as RAYTHEON), a Delaware corporation, having its principal place of business in Lexington, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to RAYTHEON, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request the Director of the United States Patent and Trademark Office and all foreign countries to issue all such Letters Patent to said RAYTHEON, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to RAYTHEON, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by RAYTHEON, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of RAYTHEON, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in RAYTHEON, its successors, assigns or other legal representatives.

Title: Dynamic Pointing Accuracy Evaluation System and Method Used with a Gun that Fires a Projectile Under Control of an Automated Fire Control System

IN WITNESS WHEREOF, I have executed this instrument.

PAGE 2 OF 5

|                                     |                          |             |
|-------------------------------------|--------------------------|-------------|
| FULL NAME OF SOLE OR JOINT INVENTOR | INVENTOR'S SIGNATURE     | DATE SIGNED |
| Uldis Duselis                       | <i>Uldis Duselis</i>     | 11/21/03    |
| RESIDENCE (CITY AND STATE)          | INVENTION AGREEMENT DATE |             |
| Indianapolis, Indiana               | 25 September 1974        |             |

STATE OF INDIANA )  
COUNTY OF Marion ) SS:

On November 21, 2003, before me, Barbara J. Sparks, a Notary Public in and for said State, personally appeared ULDIS DUSELIS

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public Barbara J. Sparks

[seal]

13050 CO FEB 98[RSC/0100]

Raytheon Company  
Intellectual Property & Licensing, Bldg. E0Y04/N119  
P. O. Box 902  
2000 East El Segundo Boulevard  
El Segundo CA 90245-0902  
Fax: (310) 647-2902

Title: *Dynamic Pointing Accuracy Evaluation System and Method Used with a Gun that Fires a Projectile Under Control of an Automated Fire Control System*

PAGE 3 OF 5

IN WITNESS WHEREOF, I have executed this instrument.

|  |   |   |
|--|---|---|
| FULL NAME OF SOLE OR JOINT INVENTOR<br><b>Jeffrey Scott Eyster</b> | INVENTOR'S SIGNATURE<br><i>Jeffrey Scott Eyster</i> | DATE SIGNED<br><i>11/21/03</i>                    |
| RESIDENCE (CITY AND STATE)<br><b>Camby, Indiana</b>                |   | INVENTION AGREEMENT DATE<br><b>28 August 1988</b> |

STATE OF INDIANA )  
COUNTY OF Marion ) SS:

On November 21, 2003, before me, Sarah J. Sparks, a  
Notary Public in and for said State, personally appeared JEFFREY SCOTT EYSTER

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to  
me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which  
the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public Sarah J. Sparks

13850 CO FEB 96[RSC/0198]

Raytheon Company  
Intellectual Property & Licensing, Bldg. EO/E04/N119  
P. O. Box 902  
2000 East El Segundo Boulevard  
El Segundo CA 90245-0902  
Fax: (310) 647-2502

Title: *Dynamic Pointing Accuracy Evaluation System and Method Used with a Gun that Fires a Projectile Under Control of an Automated Fire Control System*

PAGE 4 OF 5

IN WITNESS WHEREOF, I have executed this instrument.

|                                     |                             |             |
|-------------------------------------|-----------------------------|-------------|
| FULL NAME OF SOLE OR JOINT INVENTOR | INVENTOR'S SIGNATURE        | DATE SIGNED |
| Jessica Renee DeHerd                | <i>Jessica Renee DeHerd</i> | 11/21/03    |
| RESIDENCE (CITY AND STATE)          | INVENTION AGREEMENT DATE    |             |
| Indianapolis, Indiana               | 12 May 1997                 |             |

STATE OF INDIANA )  
COUNTY OF Marion ) SS:

On November 21, 2003, before me, Sarah J. Sparks, a  
Notary Public in and for said State, personally appeared JESSICA RENEE DEHERDT

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public Sarah J. Sparks



Title: *Dynamic Pointing Accuracy Evaluation System and Method Used with a Gun that Fires a Projectile Under Control of an Automated Fire Control System*

PAGE 5 OF 5

IN WITNESS WHEREOF, I have executed this instrument.

|   |  |   |
|---|--|---|
| FULL NAME OF SOLE OR JOINT INVENTOR<br><b>Michael Frederick Hampton</b> | INVENTOR'S SIGNATURE<br><i>Michael Frederick Hampton</i> | DATE SIGNED<br><i>11/21/03</i>                  |
| RESIDENCE (CITY AND STATE)<br><b>Zionsville, Indiana</b>                |  | INVENTION AGREEMENT DATE<br><b>6 April 1981</b> |

STATE OF INDIANA )  
COUNTY OF Marion ) SS:

On November 21, 2003, before me, Barbara J. Sparks, a  
Notary Public in and for said State, personally appeared **MICHAEL FREDERICK HAMPTON**

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to  
me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which  
the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public *Barbara J. Sparks*

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Raytheon Company  
Intellectual Property & Licensing, Bldg. EO/E04/N119  
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